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## Paracel BLAST Results

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## MEGABLAST 1.2.3-Paracel [2001-11-20]

## Reference:

Zheng Zhang, Scott Schwartz, Lukas Wagner, and Webb Miller (2000),  
 "A greedy algorithm for aligning DNA sequences",  
 J Comput Biol 2000; 7(1-2):203-14.

Database: Homo\_sapiens.latestgp.fa  
 26,679 sequences; 200,800,637,119 total letters

Query= 241id3  
 (2853 letters)

Sequences producing significant alignments:	Score (bits)	E Value
AP002986.2.1.157963	<u>1899</u>	0.0
AP003459.2.1.28000	<u>1528</u>	0.0
AL590714.27.1.133512	<u>64</u>	5e-07
AP001599.1.1.118241	<u>62</u>	2e-06
AP001598.1.1.171038	<u>62</u>	2e-06

>AP002986.2.1.157963  
 Length = 157963

Score = 1899 bits (958), Expect = 0.0  
 Identities = 958/958 (100%)  
 Strand = Plus / Plus

Query: 1 atgcttctgctgggcatacctaaccctggctttcgccggggaaccgctggaggctctgag 60  
 |||||  
 Sbjct: 134115 atgcttctgctgggcatacctaaccctggctttcgccggggaaccgctggaggctctgag 134174

① Query: 61 ccagagcgggaggtagtcgttcccatccgactggacccggacattaacggccgcttac 120  
 |||||  
 Sbjct: 134175 ccagagcgggaggtagtcgttcccatccgactggacccggacattaacggccgcttac 134234

Query: 121 tactggcgggggtcccaggactccggggatcagggactcatttttcagatcacagcattt 180  
 |||||  
 Sbjct: 134235 tactggcgggggtcccaggactccggggatcagggactcatttttcagatcacagcattt 134294

Query: 181 caggaggacttttacctacacctgacgccggatgctcagttcttggctcccgcttctcc 240  
 |||||  
 Sbjct: 134295 caggaggacttttacctacacctgacgccggatgctcagttcttggctcccgcttctcc 134354

Query: 241 actgagcatctgggcgtccccctccagggggtcaccgggggctcttcagacctgcgacgc 300  
 |||||  
 Sbjct: 134355 actgagcatctgggcgtccccctccagggggtcaccgggggctcttcagacctgcgacgc 134414

Query: 301 tgcttctattctggggacgtgaacgccgagccggactcgttcgctgctgtgagcctgtgc 360  
 |||||

Sbjct: 134415 tgcttctattctggtggacgtgaacgccgagccggactcggttcgctgctgtgagcctgtgc 134474

Query: 361 ggggggctccgcgaggcctttggctaccgaggcgccgagtatgtcattagcccgtgccc 420  
|||||

Sbjct: 134475 ggggggctccgcgaggcctttggctaccgaggcgccgagtatgtcattagcccgtgccc 134534

Query: 421 aatgctagcgcgccggcgccgagcgcaacagccagggcgccacaccttctccagcgccgg 480  
|||||

Sbjct: 134535 aatgctagcgcgccggcgccgagcgcaacagccagggcgccacaccttctccagcgccgg 134594

Query: 481 ggtgttcggggcgccgcttccggagacccacacctctcgctgcggggtggcctcgggctgg 540  
|||||

Sbjct: 134595 ggtgttcggggcgccgcttccggagacccacacctctcgctgcggggtggcctcgggctgg 134654

Query: 541 aaccccgccatcctacggggccctggacccttacaagccgcgggcgggcggttcgggggag 600  
|||||

Sbjct: 134655 aaccccgccatcctacggggccctggacccttacaagccgcgggcgggcggttcgggggag 134714

Query: 601 agtcgtagccggcgaggtctggcgcgccaagcggttcgtgtctatcccgcggtacgtg 660  
|||||

Sbjct: 134715 agtcgtagccggcgaggtctggcgcgccaagcggttcgtgtctatcccgcggtacgtg 134774

Query: 661 gagacgctggtggtcgcgagcaggtcaatggtcaagttccacggcgcgacacctggaacat 720  
|||||

Sbjct: 134775 gagacgctggtggtcgcgagcaggtcaatggtcaagttccacggcgcgacacctggaacat 134834

Query: 721 tatctgctgacgctgctggcaacggcgcgactctaccgccatcccagcatcctcaac 780  
|||||

Sbjct: 134835 tatctgctgacgctgctggcaacggcgcgactctaccgccatcccagcatcctcaac 134894

Query: 781 cccatcaacatcggttggtggtcaaggtgctgcttcttagagatcggtgactccggggcccaag 840  
|||||

Sbjct: 134895 cccatcaacatcggttggtggtcaaggtgctgcttcttagagatcggtgactccggggcccaag 134954

Query: 841 gtcaccggcaatgcggccctgacgctgcgcaacttctgtgcctggcagaagaagctgaac 900  
|||||

Sbjct: 134955 gtcaccggcaatgcggccctgacgctgcgcaacttctgtgcctggcagaagaagctgaac 135014

Query: 901 aaagtgagtgacaagcaccggagtagtgggacactgccatcctcttcaccaggcagg 958  
|||||

Sbjct: 135015 aaagtgagtgacaagcaccggagtagtgggacactgccatcctcttcaccaggcagg 135072

Score = 571 bits (288), Expect = e-160

Identities = 288/288 (100%)

Strand = Plus / Plus

Query: 1258 ggtgactgcctcctggaccaaccagcaagcccatctccctgcccaggatctgccgggc 1317

Sbjct: 147637 |||||  
ggtgactgacctcctggaccaacccagcaagcccatctccctgcccaggatctgccgggc 147696

Query: 1318 gccagctacaccctgagccagcagtgcgagctggccttttggcgtgggctccaagccctgt 1377

Sbjct: 147697 |||||  
gccagctacaccctgagccagcagtgcgagctggccttttggcgtgggctccaagccctgt 147756

Query: 1378 ccttacatgcagtactgcaccaagctgtggtgcaccgggaaggccaagggacagatggtg 1437

Sbjct: 147757 |||||  
ccttacatgcagtactgcaccaagctgtggtgcaccgggaaggccaagggacagatggtg 147816

Query: 1438 tgccagacccgccacttcccctgggcccgatggcaccagctgtggcgagggcaagctctgc 1497

Sbjct: 147817 |||||  
tgccagacccgccacttcccctgggcccgatggcaccagctgtggcgagggcaagctctgc 147876

Query: 1498 ctcaaaggggcctgcgtggagagacacaacctcaacaagcacagggtg 1545

Sbjct: 147877 |||||  
ctcaaaggggcctgcgtggagagacacaacctcaacaagcacagggtg 147924

Score = 371 bits (187), Expect = 2e-99

Identities = 187/187 (100%)

Strand = Plus / Plus

Query: 1719 agcctccggaaagagcttccgggaggagcagtgtaggctttcaacggctacaaccacag 1778

Sbjct: 156059 |||||  
agcctccggaaagagcttccgggaggagcagtgtaggctttcaacggctacaaccacag 156118

Query: 1779 caccaaccgggtcactctcgccgtggcatgggtgcccaagtactccggcgtgtctccccg 1838

Sbjct: 156119 |||||  
caccaaccgggtcactctcgccgtggcatgggtgcccaagtactccggcgtgtctccccg 156178

Query: 1839 ggacaagtgcagctcatctgccgagccaatggcactggctacttctatgtgctggcacc 1898

Sbjct: 156179 |||||  
ggacaagtgcagctcatctgccgagccaatggcactggctacttctatgtgctggcacc 156238

Query: 1899 caagggtg 1905

Sbjct: 156239 |||||  
caagggtg 156245

Score = 355 bits (179), Expect = 1e-94

Identities = 179/179 (100%)

Strand = Plus / Plus

Query: 1901 aggtggtggacggcacgctgtgctctcctgactccacctccgtctgtgtccaaggcaagt 1960

Sbjct: 156347 |||||  
aggtggtggacggcacgctgtgctctcctgactccacctccgtctgtgtccaaggcaagt 156406

Query: 1961 gcatcaaggctggctgtgatgggaacctgggctccaagaagagattcgacaagtgtgggg 2020  
|||||  
Sbjct: 156407 gcatcaaggctggctgtgatgggaacctgggctccaagaagagattcgacaagtgtgggg 156466

Query: 2021 tgtgtgggggagacaataagagctgcaagaagggtgactggactcttcaccaagcccatg 2079  
|||||  
Sbjct: 156467 tgtgtgggggagacaataagagctgcaagaagggtgactggactcttcaccaagcccatg 156525

Score = 355 bits (179), Expect = 1e-94  
Identities = 183/184 (99%), Gaps = 1/184 (0%)  
Strand = Plus / Plus

Query: 1537 cacagggtggatggttcctggggccaaatgggatccctatggcccctgctcgcgcacatgt 1596  
|||||  
Sbjct: 154398 caca-ggtggatggttcctggggccaaatgggatccctatggcccctgctcgcgcacatgt 154456

Query: 1597 ggtgggggctgagctggccaggaggcagtgaccaacccccaccctgccaacgggggc 1656  
|||||  
Sbjct: 154457 ggtgggggctgagctggccaggaggcagtgaccaacccccaccctgccaacgggggc 154516

Query: 1657 aagtactgcgagggagtgaggggtgaaataccgatcctgcaatctggagccctgccccagc 1716  
|||||  
Sbjct: 154517 aagtactgcgagggagtgaggggtgaaataccgatcctgcaatctggagccctgccccagc 154576

Query: 1717 tcag 1720  
|||||  
Sbjct: 154577 tcag 154580

Score = 339 bits (171), Expect = 6e-90  
Identities = 171/171 (100%)  
Strand = Plus / Plus

Query: 1090 ggccacgtgttcaacatgccccatgacaatgtgaaagtctgtgaggaggtgtttgggaag 1149  
|||||  
Sbjct: 147227 ggccacgtgttcaacatgccccatgacaatgtgaaagtctgtgaggaggtgtttgggaag 147286

Query: 1150 ctccgagccaaccacatgatgtccccgaccctcatccagatcgaccgtgccaacccctgg 1209  
|||||  
Sbjct: 147287 ctccgagccaaccacatgatgtccccgaccctcatccagatcgaccgtgccaacccctgg 147346

Query: 1210 tcagcctgcagtgtgcatcatcaccgacttcctggacagcgggcacggt 1260  
|||||  
Sbjct: 147347 tcagcctgcagtgtgcatcatcaccgacttcctggacagcgggcacggt 147397

Score = 278 bits (140), Expect = 2e-71

Identities = 143/144 (99%)

Strand = Plus / Plus

Query: 948 caccaggcaggacctgtgtggagccaccacctgtgacaccctgggcatggctgatgtggg 1007  
|||||  
Sbjct: 146620 caccggcaggacctgtgtggagccaccacctgtgacaccctgggcatggctgatgtggg 146679

2 Query: 1008 taccatgtgtgaccccaagagaagctgctctgtcattgaggacgatgggcttccatcagc 1067  
|||||  
Sbjct: 146680 taccatgtgtgaccccaagagaagctgctctgtcattgaggacgatgggcttccatcagc 146739

Query: 1068 cttcaccactgcccacgagctggg 1091  
|||||  
Sbjct: 146740 cttcaccactgcccacgagctggg 146763

&gt;AP003459.2.1.28000

Length = 28000

Score = 1528 bits (771), Expect = 0.0

Identities = 774/775 (99%)

Strand = Plus / Plus

3 Query: 2079 gcatggctacaatttcgtggtggccatccccgcaggcgctcaagcatcgacatccgcca 2138  
|||||  
Sbjct: 3473 gcatggctacaatttcgtggtggccatccccgcaggcgctcaagcatcgacatccgcca 3532

Query: 2139 gcgcggttacaaagggctgatcggggatgacaactacctggctctgaagaacagccaagg 2198  
|||||  
Sbjct: 3533 gcgcggttacaaagggctgatcggggatgacaactacctggctctgaagaacagccaagg 3592

Query: 2199 caagtacctgctcaacgggcatttcgtggtgtcggcggtggagcgggacctggtggtgaa 2258  
|||||  
Sbjct: 3593 caagtacctgctcaacgggcatttcgtggtgtcggcggtggagcgggacctggtggtgaa 3652

Query: 2259 gggcagtctgctgcggtacagcggcacgggcacagcgggtggagagcctgcaggcttcccg 2318  
|||||  
Sbjct: 3653 gggcagtctgctgcggtacagcggcacgggcacagcgggtggagagcctgcaggcttcccg 3712

Query: 2319 gcccatacctggagccgctgaccgtggaggtcctctccgtggggaagatgacaccgccccg 2378  
|||||  
Sbjct: 3713 gcccatacctggagccgctgaccgtggaggtcctctccgtggggaagatgacaccgccccg 3772

Query: 2379 ggtccgctactccttctatctgccc aaagagcctcgggaggacaagtcctctcatcccaa 2438  
|||||  
Sbjct: 3773 ggtccgctactccttctatctgccc aaagagcctcgggaggacaagtcctctcatcccaa 3832

Query: 2439 ggacccccggggaccctctgtcttgacaaacagcgctcctcagcctctccaaccaggtgga 2498  
|||||

Sbjct: 3833 ggacccccggggaccctctgtcttgdcacaatagcgtcctcagcctctccaaccaggtgga 3892

Query: 2499 gcagccggacgacagggccccctgcacgctgggtggctggcagctgggggcccgtgctccgc 2558  
|||||

Sbjct: 3893 gcagccggacgacagggccccctgcacgctgggtggctggcagctgggggcccgtgctccgc 3952

Query: 2559 gagctgcggcagtgccctgcagaagcgggcccgtggactgtcggggctccgccgggcagcg 2618  
|||||

Sbjct: 3953 gagctgcggcagtgccctgcagaagcgggcccgtggactgtcggggctccgccgggcagcg 4012

Query: 2619 cacggtccctgcctgtgatgcagcccatcgccccgtggagacacaagcctgcggggagcc 2678  
|||||

Sbjct: 4013 cacggtccctgcctgtgatgcagcccatcgccccgtggagacacaagcctgcggggagcc 4072

Query: 2679 ctgccccacctgggagctcagcgccctggtcaccctgctccaagagctgcggccggggatt 2738  
|||||

Sbjct: 4073 ctgccccacctgggagctcagcgccctggtcaccctgctccaagagctgcggccggggatt 4132

Query: 2739 tcagaggcgctcactcaagtgtgtgggccacggaggccggctgctggccccgggaccagtg 2798  
|||||

Sbjct: 4133 tcagaggcgctcactcaagtgtgtgggccacggaggccggctgctggccccgggaccagtg 4192

Query: 2799 caacttgaccgcaagccccaggagctggacttctgcgtcctgaggccgtgctga 2853  
|||||

Sbjct: 4193 caacttgaccgcaagccccaggagctggacttctgcgtcctgaggccgtgctga 4247

Score = 371 bits (187), Expect = 2e-99

Identities = 187/187 (100%)

Strand = Plus / Plus

Query: 1719 agcctccggaaagagcttccgggaggagcagtggtgaggctttcaacggctacaaccacag 1778  
|||||

Sbjct: 1344 agcctccggaaagagcttccgggaggagcagtggtgaggctttcaacggctacaaccacag 1403

Query: 1779 caccaaccggctcactctcgccgtggcatgggtgcccaagtactccggcggtgtctccccg 1838  
|||||

Sbjct: 1404 caccaaccggctcactctcgccgtggcatgggtgcccaagtactccggcggtgtctccccg 1463

Query: 1839 ggacaagtgcaagctcatctgccgagccaatggcactggctacttctatgtgctggcacc 1898  
|||||

Sbjct: 1464 ggacaagtgcaagctcatctgccgagccaatggcactggctacttctatgtgctggcacc 1523

Query: 1899 caaggtg 1905  
|||||

Sbjct: 1524 caaggtg 1530

Score = 355 bits (179), Expect = 1e+94  
Identities = 179/179 (100%)  
Strand = Plus / Plus

Query: 1901 aggtggtggacggcacgctgtgctctcctgactccacctccgtctgtgtccaaggcaagt 1960  
|||||  
Sbjct: 1632 aggtggtggacggcacgctgtgctctcctgactccacctccgtctgtgtccaaggcaagt 1691

Query: 1961 gcatcaaggctggctgtgatgggaacctgggctccaagaagagattcgacaagtgtgggg 2020  
|||||  
Sbjct: 1692 gcatcaaggctggctgtgatgggaacctgggctccaagaagagattcgacaagtgtgggg 1751

Query: 2021 tgtgtgggggagacaataagagctgcaagaagggtgactggactcttcaccaagcccatg 2079  
|||||  
Sbjct: 1752 tgtgtgggggagacaataagagctgcaagaagggtgactggactcttcaccaagcccatg 1810

>AL590714.27.1.133512  
Length = 133512

Score = 63.9 bits (32), Expect = 5e-07  
Identities = 59/68 (86%)  
Strand = Plus / Minus

Query: 955 caggacctgtgtggagccaccacctgtgacaccctgggcatggctgatgtgggtaccatg 1014  
|||||  
Sbjct: 51486 caggacctgtgtggagtctccacttgcgacacgctgggtatggctgatgtgggcaccgtc 51427

Query: 1015 tgtgaccc 1022  
|||||  
Sbjct: 51426 tgtgaccc 51419

>AP001599.1.1.118241  
Length = 118241

Score = 61.9 bits (31), Expect = 2e-06  
Identities = 43/47 (91%)  
Strand = Plus / Minus

Query: 1839 ggacaagtgcaagctcatctgccgagccaatggcactggctacttct 1885  
|||||  
Sbjct: 42122 ggacaggtgcaagctcatctgccaaagcattggctacttct 42076

Score = 48.1 bits (24), Expect = 0.031  
Identities = 30/32 (93%)  
Strand = Plus / Minus

Query: 1450 cacttcccctgggccgatggcaccagctgtgg 1481

11/21/2003